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12 **EUROPEAN PATENT APPLICATION**

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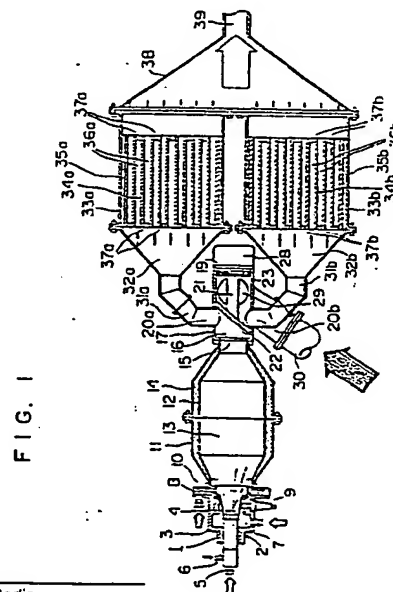
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54 A purifier of diesel particulates in exhaust gas.

57 Provided is a regeneration system of an exhaust gas filtering element for diesel particulates. The system comprises two filter elements (34a, 34b) provided in parallel with each other, a burner mechanism (1), and a four-way valve mechanism (16) for switching over an exhaust gas flow and a preheated gas flow obtained by combustion in the burner mechanism (1). The exhaust gas flow is generally passed uniformly through the two filter elements (34a, 34b) which filter off particulates. However, when regeneration is required, an elliptical vane (22) provided in a cylinder (17) of the four-way valve mechanism (16) is rotated so as to cut off the exhaust gas flow passing through one of the filter elements and cause the preheated gas to flow through this filter, whereby particulates are oxidized and incinerated. At this time, the exhaust gas flow is passed through the other filter element, without any particulates being emitted into the atmosphere. Then, the exhaust gas flow and the preheated gas flow are switched by rotating the vane (22) so that the other filter element is regenerated.





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EUROPEAN SEARCH REPORT

Application Number

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	PATENT ABSTRACTS OF JAPAN, vol. 10, no. 29 (M-451)[2086], 5th February 1986; & JP-A-60 184 917 (HITACHI SEISAKUSHO K.K.) 20-09-1985 * Abstract; figure *	1	F 01 N 3/02
A	IDEM. ---	5-7	
X	US-A-4 373 330 (STARK) * Column 2, lines 23-63; column 5, line 66 - column 6, line 38; figure 1 *	1,4	
A	---	7	
X	US-A-4 381 643 (STARK) * Column 3, line 65 - column 4, line 22; column 6, line 40 - column 7, line 54; figure 2 *	1,4	
A	---	5-7	
X	DE-A-3 204 176 (FORSCHUNGSGESELLSCHAFT FÜR ENERGIE-TECHNIK UND VERBRENNUNGSMOTOREN mbH) * Page 7, middle - page 9, middle; figures 1-5 *	1,4	TECHNICAL FIELDS SEARCHED (Int. Cl.4)
A	---	2	F 01 N F 16 K
X,P	DE-U-8 701 816 (MAN TECHNOLOGIE GmbH) * Page 3, middle - page 4, bottom; figures 1,2 *	1	
A,P	---	2	
A	EP-A-0 207 446 (ISUZU) * Column 3, lines 23-38; figure 1 * --- -/-	1,5,6	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20-10-1988	Examiner FRIDEN C.M.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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Application Number

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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	EP-A-0 087 067 (MATSUSHITA) * Paragraph 2 *	7	
A	EP-A-0 121 445 (NGK INSULATORS LTD) * Page 1, lines 1-9; page 9, line 27 - page 10, line 11 *	7	
A	FR-A- 958 836 (LINDHOLM) * Whole document *	2	
A	FR-A-2 300 277 (CASEM)		
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
The present search report has been drawn up for all claims			
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